



Appl. No. 09/722,495; Filed: November 28, 2000
Dkt. No. 1503.0220002/JAG/THN; Group Art Unit: 1647
Inventors: Springer *et al.*; Tel: 202/371-2600
Title: Analogs of Human Basic Fibroblast Growth Factor
Mutated at One or More of the Positions Glutamate 89 ...

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1 NcoI

ATG GGC ACC ATG GCA GCC GGG AGC ATC ACC ACG CTG CCC GCC CTT CCG GAG
Met Gly Thr Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu

SmaI

GAT GGC GGC AGC GGC GCC TTC CCG CCC GGG CAC TTC AAG GAC CCC AAG CCG
Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg

CTG TAC TGC AAA AAC GGG GGC TTC TTC CTG CGC ATC CAC CCC GAC GGC CGA
Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg

GTT GAC GGG GTC CGG GAG AAG AGC GAC CCT CAC ATC AAG CTA CAA CTT CAA
Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu Gln

KpnI

GCA GAA GAG AGA GGA GTT GTG TCT ATC AAA GGA GTG TGT GCT AAC CCG TAC
Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn Arg Tyr

CTG GCT ATG AAA⁸⁹

GAA
Glu

GAT GGT CGA CTG CTG GCT TCT AAA TGC GTT ACC¹⁰¹

GAT
Asp

Leu Ala Met Lys Asp Gly Arg Leu Leu Ala Ser Lys Cys Val Thr

XhoI

GAG TGC TTC TTC TTC GAA CGT CTC GAG TCT AAC AAC TAC AAC ACC TAC CGT
Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg

AflII

TCG AGA AAA TAC ACC AGT TGG TAT GTG GCA CTT AAG CGT ACC GGT CAG TAC
Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr

137

ApaI

AAA¹³⁷

CTT
Leu

GGT TCT AAG ACG GGC CCA GGT CAG AAA GCT ATC CTG TTC CTG CCG
Lys Gly Ser Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro

BamHI

ATG TCT GCT AAA TCT TGA GGA TCC
Met Ser Ala Lys Ser ***

FIG.1

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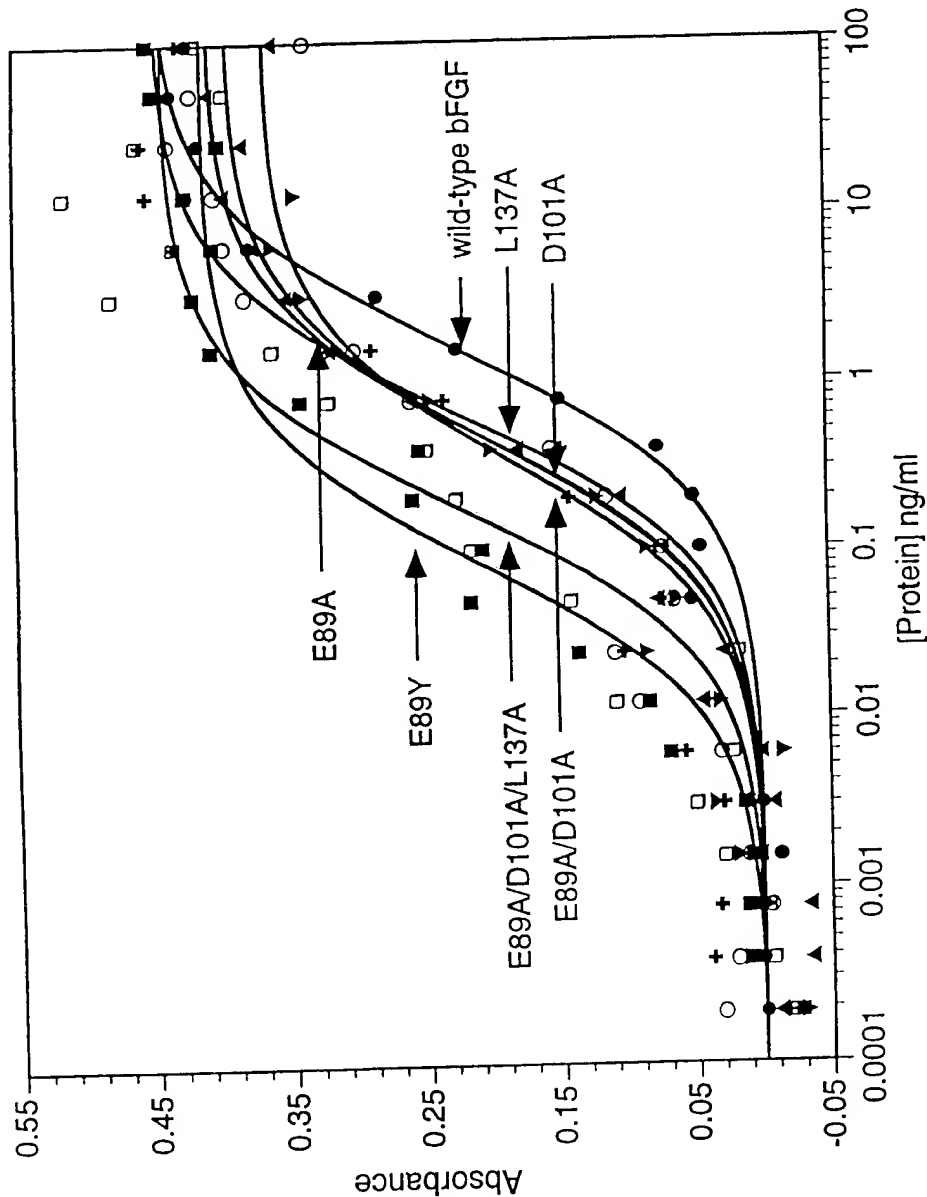


FIG.2

